

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 2    | "6832013".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:47 |
| L2    | 6510 | etch\$3 near5 stop near5 (opening hole via through\$5 cavity) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:50 |
| L3    | 5    | 2 and 385/14.ccls. and @pd<"20040210"                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:51 |
| L4    | 312  | etch\$3 near5 stop near5 cavity                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:50 |
| L5    | 4    | 4 and "385"/\$.ccls. and @pd<"20040210"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:52 |
| L6    | 8    | 2 and 385/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:51 |
| L7    | 3    | 6 not 3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:51 |
| L8    | 14   | 4 and "385"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:52 |
| L10   | 10   | 8 not 5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/03/09 16:53 |

## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S2  | 0     | circuit adj board with (waveguide fiber) with etch\$3 near3 stop\$3 with fiducial with (open\$3 hole via) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/03/09 16:46 |
| S3  | 1     | circuit adj board same (waveguide fiber) same etch\$3 near3 stop\$3 with fiducial same (open\$3 hole via) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 10:56 |
| S4  | 7739  | fiducial  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:21 |
| S5  | 18542 | etch adj stop   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 10:56 |
| S6  | 8     | S4 with S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 10:57 |
| S7  | 7522  | (waveguide fiber) with circuit adj board  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 10:57 |
| S8  | 1     | S6 and S7   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 10:57 |
| S10 | 5     | S6 and (waveguide fiber)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:09 |
| S12 | 3     | S6 and (circuit board)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 10:58 |
| S13 | 235   | S4 and "385"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:23 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S14 | 37     | S4 and "385"/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:10 |
| S15 | 3      | S14 and etch adj stop  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:11 |
| S16 | 0      | circuit adj board with (waveguide fiber) with etch\$3 near3 stop\$3 with (fiducial (reference alignment) adj (point mark)) with (open\$3 hole via) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:18 |
| S17 | 1      | circuit adj board same (waveguide fiber) same etch\$3 near3 stop\$3 same (fiducial (reference alignment) adj (point mark)) same (open\$3 hole via) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:19 |
| S18 | 106700 | fiducial (reference alignment) adj (mark point)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:30 |
| S19 | 57     | S5 with S18  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:22 |
| S20 | 1      | S7 and S19   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 11:22 |
| S21 | 1029   | S18 and "385"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:32 |
| S26 | 107544 | fiduci\$3 (reference alignment) adj (mark point)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:31 |
| S27 | 8      | S5 with fiducia\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:30 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S28 | 57  | S5 with S26   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:31 |
| S29 | 157 | S26 and "385"/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:32 |
| S31 | 153 | S18 and "385"/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:33 |
| S33 | 22  | S31 and S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:33 |
| S34 | 1   | S19 and 385/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:34 |
| S35 | 6   | S19 and "385"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:51 |
| S36 | 4   | "6236788".pn. "20030021541"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/17 12:51 |
| S37 | 14  | ("5981975" "6832013" "6907150"<br>"6158901" "6859603").pn.<br>"20020119588" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 16:35 |
| S38 | 6   | (etch adj stop) with (hole opening<br>remov\$3) with (laser near3 abla\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 14:29 |
| S39 | 45  | (laser near3 abla\$4) with (carbon<br>adj dioxide adj laser)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 14:28 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S40 | 2    | S39 and "385"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:27 |
| S41 | 132  | (etch adj stop) with (hole opening remov\$3) with (reactive adj ion adj etching)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:28 |
| S42 | 1    | S41 and "385"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:28 |
| S43 | 4    | (etch adj stop) with (hole opening remov\$3) with (fiducia\$2 (reference align\$4) (mark point)) with (waveguide fiber) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:31 |
| S44 | 1    | S43 and alignment adj pin   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:31 |
| S45 | 1    | S43 and align\$4 near3 pin  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:32 |
| S47 | 5    | S37 and waveguides  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:40 |
| S48 | 1    | S37 and (selective adj etch adj stop)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:42 |
| S49 | 2502 | (etch adj stop) with metal  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:42 |
| S50 | 26   | S49 and "385"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:45 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S51 | 6  | ("6483962" "5122852" "5540346").<br>pn.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:45 |
| S52 | 3  | S51 and etch adj stop  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:47 |
| S53 | 2  | S37 and substrate with organic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:48 |
| S54 | 4  | S37 and substrate with (hole<br>opening remov\$3)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:50 |
| S58 | 2  | circular adj alignment adj pin and<br>"385"/\$.ccls.                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:52 |
| S59 | 0  | complete adj etch adj stop with<br>(fiber waveguide)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:53 |
| S60 | 0  | (complete total) adj etch adj stop<br>with (fiber waveguide)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:53 |
| S61 | 0  | ((complete\$2 total\$2) near3 (etch<br>adj stop)) with (fiber waveguide) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:54 |
| S62 | 46 | ((complete\$2 total\$2) near3 (etch<br>adj stop)) and (fiber waveguide)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 14:53 |
| S63 | 7  | ((complete\$2 total\$2) near3 (etch<br>adj stop)) same (fiber waveguide) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/19 15:42 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S64 | 3965 | 385/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 15:48 |
| S66 | 6    | S37 and depth   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 16:24 |
| S67 | 5    | S37 and (etch adj stop) with<br>remov\$3                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 16:44 |
| S68 | 5    | S37 and (reference align\$4<br>fiducia\$2) with position\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 16:50 |
| S69 | 1    | S37 and waveguide with expos\$3                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 16:51 |
| S70 | 4    | S37 and remov\$3 with substrate                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 17:48 |
| S71 | 1    | S37 and opto-electronic with align\$4<br>with waveguide     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:10 |
| S74 | 1    | "5122852".pn. and gold                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:30 |
| S75 | 1    | "20010046346" and dielectric with<br>reflect\$3             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:39 |
| S76 | 1    | "20020075107" and laser near3<br>abla\$4                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:44 |

## EAST Search History

|     |   |   |   |    |    |                  |
|-----|---|---|---|----|----|------------------|
| S77 | 1 | "5101090" and laser with abla\$4<br>with carbon adj dioxide | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:57 |
| S78 | 2 | "6859603".pn. and waveguide                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:59 |
| S79 | 0 | "6859603".pn. and waveguide with<br>etch adj stop           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:59 |
| S81 | 1 | "6859603".pn. and waveguide with<br>circuit                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/19 18:59 |